Example

DWSX



0.1 µm AseptiCap WS Hydrophilic PVDF Membrane Capsule Filters

mdi AseptiCap WS are low protein binding hydrophilic PVDF membrane capsule filters offering serial filtration incorporating a large pore size upstream membrane to protect the downstream membrane for enhanced throughput.

These capsule filters are validated to meet compendia and regulatory requirements and are well characterized. They meet key process requirements such as absolute retention efficiency, extremely low extractables, high throughputs, wide chemical compatibility and other important characteristics.

Key features

- > Absolute retention
- 100% integrity tested
- > Low protein binding
- Low extractables
- Very low hold up volume in filters

Applications

Sterile Filtration of

- Cell culture media
- > Growth Regularors
- > Small Volume Parenterals

Complies with USFDA 21 CFR 210.3(b)(6)

Meets and Exceeds USFDA 21 CFR 177.1520



Specifications

Pore Size

 $0.1 \, \mu m$

Materials of Construction

| Membrane | Hydrophilic PVDF | | | | | |
|--------------------|------------------|--|--|--|--|--|
| Support Layer | Polyester | | | | | |
| Plastic Components | Polypropylene | | | | | |

Microbial Retention

LRV>7 for *A.laidlawii* (ATCC 23206) per cm²

${\bf Maximum\,Operating\,Temperature}$

 $80 \,^{\circ}\text{C} \,@ \leq 30 \,\text{psi} \,(2 \,\text{Kg/cm}^2)$

Maximum Differential Pressure

60 psi (4 Kg/cm²) @ 30 °C

Bubble Point

 \geq 31 psi (2.18 Kg/cm²) with 50% IPA/water Solution

Sterilization

By Autoclave: Autoclavable at 125°C for 30 minutes, 2 Cycles. Can not be in-line steam sterilized

By Gas: Sterilization by Ethylene Oxide

Toxicity

Passes Bioreactivity test, In Vivo, as per USP <88> for Class VI plastics

Cytotoxicity

Passes Biological Reactivity Tests, *In Vitro*, USP <87> for cytotoxicity

Bacterial Endotoxin

Aqueous extracts exhibit < 0.25 EU/ml as established by Limulus Amebocyte Lysate (LAL)Test as per USP < 85>

Fiber Release

Passes test as per USP and comply with USFDA 21 CFR Part 210.3(b)(6) for fiber release

Particle Release:

The filtrate complies with USP <788> test for particulate matter in injections

TOC and Conductivity

Meets the WFI requirements of USP for TOC <643> and Conductivity <645> after a 3 liter flush

Extractables with WFI

Passes NVR test as per USP <661>

Oxidizable Substances

Passes test as per USP <1231>

Ordering Information

| Туре | | Size | | Pore Size | | Inlet /Outlet | | х | х | Sterility | | Pack Size | | |
|---------------------------------------|------|----------------|------|-----------|------------------|---------------------------|------|--|---|-------------|------|-----------|------|--|
| | Code | Length and EFA | Code | | Code | | Code | | | | Code | | Code | |
| AseptiCap WS | DWS1 | 1" (250 cm²) | 51 | 0.1 μm | 36 | 1⁄4″ SHB | Α | | | Non-Sterile | 1 | 1 | 01 | |
| (0.2 μm Upstream) | | 2" (500 cm²) | 52 | | | ½" Hose Barb | D | | | EO Sterile | 2 | | | |
| AseptiCap WS | DWSX | 5" (1000 cm²) | 53 | | | 1½" Sanitary Flange | E | | | | | | | |
| (0.45 µm Upstream) | | 8" (2000 cm²) | 57 | | | ¾" Sanitary Flange | S | *Single step ½" hose barb and 3/8" Hose Barb end connections are no available in 1"capsule filter | | | | | | |
| | | | | | | Quick Connector | J | **Male luer slip end connection is available as outlet only in 1" capsule filters ***3/16"hose barb end connection is available in: - 1" and 2" capsule filters as inlet and outlet - 5" as outlet only | | | | | | |
| | | | | | | Single Step ½" Hose Barb* | Q | | | | | | | |
| | | | | | Female Luer Lock | U | | | | | | | | |
| | | | | | | Male Luer Slip** | W | | | | | | | |
| EFA: Effective Filtration Area | | | | | | 3/16" Hose Barb*** | N | | | | | | | |
| Evample | | | | | | 3/8" Hose Barb* | ı | | | | | | | |

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